BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Construction of Toilets Inside JP Park In Ward No 17

Rate Analysis -1

PWD SR 2018-19

Sl No	Description of work	Unit	P.No	I.No	Basic Rate	Lead & Loading Unloading	AW 6%	Sub Total	TP+3%	Grand Total
EIRL -1	Providing and fixing self supported, ribbed, high quality, high grade (0.350 MPa(Yst Min.) pre- painted Galvalume steel roof sheet, corrugated/rib bare Galvalume roating AZ 150, @150 gms/Sqm specified for differentspans with a tolerance of+/- 0.02 mm, according to technical specificationconfirming to A 792, with HCCA11-1, or equivalent, having minimum hardness HR,NCCA standard T-Bend test. The roof should be fastened to thegirtersbeam, on the external sloping side, at an interval of 51mm Centre toCentre, in a depth of 65 mm with GI anchor bolts and neoprenewashers & subjecting the gutter beam to Schmidt, hammer test toensure the anchorage of the anchor bolts. The self supported roofingsystem should be designed to with stand the wind load (As per IS:875part-3) & Earthquake load (as per IS 1893) &the design should alsocomply with any other technical requirements such as turbo ventilatorsof 0.60 mts. dia and skylights of size 4.26 x 0.60 mts. fixed one in each row @ 10.00 Mts C/C alongthe length & hangers for electrical fixturesas per the requirements including cost of all materials &labour forerection, all lead and lift, loading and unloading, HOM of	Sqm	131	38.46.1	1566.00		124.80	1684.80	33.70	1718.50
EIRL -2	Fabrication supplying and erecting M.S. tubular trusses of all spans as Kg per approved drawing & design with prefabricated steel applications usingquality material and are durable, reliable and corrosion and abrasionresistant. Welding shall confirm to latest structural welding code. Qualityshall be on various parameters like shape, size, design gauge andpolish. The entire trusses is anchored in RCC column by using 4 nosof M.S. anchor bolts at each support with 10mm thick base plate andshoe plate. The work includes cutting, straightening, placing in positionM.S. pipes and welding wherever necessary and applying one coat ofredoxide primer coat to all the members including cost of all materials,labour charges, and hire charges of machinertes for cutting, welding,grinding and erection equipments, with all lead and lift, transportation,letc., complete as per specification	Kg's	43	7.29	111.00		8.88	119.88	2.40	122.28
EIRL -3	KSRB 7.1 : Providing and fixing in position collapsible steel shutters Sqm with single or double leaf with vertical channel 20mmx10mmx2mmm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint, cost of materials, labour, HOM complete as per specifications, size of gate 2.4mx1.4m Specification No. KBS 7.7 / 7.12	Sqm	33	7.1	5210		416.80	5626.80	112.54	5739.34
EIRL -4	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., Sqm with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervalsof 600mm. These vertical rods laterally tied to 3 horizontal rods spacedat equal interval. These assembly is fixed to concrete by using expansionbolts and welding the same to reinforcement bars and making good thesurface. All the joints and sections hould be cut to length, welded andgrinded wherever necessary etc., complete. The work includes cost of allmaterials, labour charges for all items of work, hire charges for welding,cutting and grinding equipment, and electricity charges, etc., completeas per specification and drawing.	Sqm	44	7.35	2840		227.20	3067.20	61.34	3128.54
EIRL -5	Supplying and fixing new Mangalore tiles on existing reepers including cost of materials, labour, HOM complete as per specifications.	Sqm	267	37.9	407		32.56	439.56	8.79	448.35
EIRL -6	Providing and fixing M.S. Grill over existing compound wall as per using 16mm x 16mm M.S. Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S.flat for ornamental design and providing shop edge design at -thevertex of every vertical rods, including welding, grinding whereverenecessary. All the steel surface should be thoroughly cleanedfree of rust and painted with anti corrosive paint (shop paint) etc.,complete. The work includes cost of all materials, labour chargesfor all items of work, hire charges for welding, cutting and grindingequipment, and electricity charges, etc., complete as per specification.	Sqm	44	7.36	5369		429.52	5798.52	115.97	5914.49
EIRL -7	Providing and fixing M.S. Gate as per Chief Architect Drawing,ornamental shape as shown in the drawing and 35mm x 6mm and 16 x16mm Square rods for verticals alternatively spaced at 4cms c/c in twohalves and 40mmx6mm M.S. flats for horizontal member and at the topcast iron spikes are provided at alternate vertical members as shown inthe drawing etc., complete. All the steel surface should be thoroughlycleaned free of rust and painted with anti corrosive paint (shop paint) etc.,complete. The work includes cost of all materials, labour charges for allitems of work, hire charges for welding, cutting and grinding equipment,and electricity charges, with lead and lift, loading and unloading charges,etc., complete as per specification.	Sqm	45	7.37	3012		240.96	3252.96	65.06	3318.02
	Above 125 %									

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Sl no	Description of work	Unit	P.No.	I.No.	Basic Rate	Lead & Loading Unloading	AW 6%	Sub Total	TP+2%	Grand Total
7	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	5	2.1	299		23.92	322.92	6.46	329.38
9	Providing and laying in position plain cement concrete of CLSS # 1 : 3 : 6 with OPC cement @ 180 kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.81 cum and down size @ 0.75 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	12	4.3	5475.28		438.0227	5913.30672	118.27	6031.57
7	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 Kgs with 12 mm & down stnes graded granite metal coarse aggregated @ 0.5865 cum & fine aggregate @ 0.391 Cum with super super plasticiser @ 0.225 Ltrs machine mixed wall compacted plain chalis 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, labour HOM of machinary, curing complete as per specification Ground floor	Sqm	14	4.19	489.77		39.1817	528.952896	10.58	539.53
11	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5m. Inluding cost of all labour complete as per specifications Complete as per the direction of Engineer in Charge with all lead and Lift	Cum	6	2.10	201		16.08	217.08	4.34	221.42
13	Providing & constructing non load bearing walls cemect concrete solid blocks with compressive strength not less than 35 kg/sqm with cement morter 1:4 (jamb, closer blocks) with blocks of size 400X10X20. (LXBXH) confirming to I.S. : 2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification.Complete as per the direction of Engineer in Charge with all lead and Lift.	Sqm	27	5.28	819.48		65.55855	885.0403894	17.70	902.74
20	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28 Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452 : 1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour, and HOM of machinery complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	34	7.7	3898		311.84	4209.84	84.20	4294.04
23	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Sqm	109	14.41.1	1271		101.68	1372.68	27.45	1400.13
32	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	96	13.70.2	297		23.76	320.76	6.42	327.18
33	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	96	13.70.3	326		26.08	352.08	7.04	359.12
34	Providing and fixing to wall, ceiling and floor , Medium density polyethylene pipes 6.00 kgf /sqcm working pressure	Mtrs	96	13.70.4	380		30.4	410.4	8.21	418.61
35	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.)A)15mm dia pipe nominal OD pipes Complete as per the direction of Engineer in Charge with all lead and Lift	Mtrs	99	13.86	206		16.48	222.48	4.45	226.93
36	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.) B)20 mm dia pipe nominal OD pipes Complete as per the direction of Engineer in Charge with all lead and Lift	Mtrs	99	13.86.2	235		18.8	253.8	5.08	258.88
37	Providing and fixing in position brass gate valve with CJ wheel of approved quality (screwed end) NB including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/ a) of 20mm dia. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	93	13.33	336		26.88	362.88	7.26	370.14

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39	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) NB including cost of all materials, labour and NOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/b) of 25mm dia. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	93	13.34	449		35.92	484.92	9.70	494.62
39	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/ISI specifications. Complete as per the direction of Engineer in Charge with all lead and Lift	Nos	XXVI	679	5.08		0.4064	5.4864	0.11	5.60
41	Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brass threaded fittings including fixing thepipes with the clamp at . This includes joining of pipes fittings with one set of cpvc solvent cement and resting of joints complete (External works) 25 mm dia pipe nominal OD pipes. Complete as per the direction of Engineer in Charge with all lead and Lift	mtrs	99	13.87.2	146		11.68	157.68	3.15	160.83
43	Providing stone ware gully trap of approved quality and fixing in C C 1:2:4 and plastering with C M 1:3 where ever necessary (Rate including cost of all materials, fixtures and lead). Size: 15 cm x 10 cm. Complete as per the direction of Engineer in Charge with all lead and Lift	Each	88	12.112	190		15.2	205.2	4.10	209.30

Assistant Engineer
Ward No 17
BBMP, Bangalore

Contractor / Representative

Assistant Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

Executive Engineer
RR Nagara Division
BBMP, Bangalore

Consultant / Representative

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